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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-15-10 **Date: 17-05-2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in right side Shooting building road at Ravindra Nagara in ward no.13, Mallasandra Shettyhalli Sub Division.

Agency : Technical Manager(West), Karanataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/54/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-05-17

Sample ID No : 2017-05-15-10/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 16-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.17	–
2	Finess by Air permeablity method (m^2/kg, Min)	282.5	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 13-06-2017

Lab ID	:	CP-2017-05-15-10
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in right side Shooting building road at Ravindra Nagara in ward no.13, Mallasandra Shettyhalli Sub Division.
Agency	:	Technical Manager(West), Karanataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-10/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-15-10** **Date: 19-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in right side Shooting building road at Ravindra Nagara in ward no.13, Mallasandra Shettyhalli Sub Division.
Agency	:	Technical Manager(West), Karanataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, Bangalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-10/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2547	2742	54.8	45.2	25-55
4	4.75 mm	1875	4617	92.3	7.7	0-10
5	Pan	383	5000	100.0	0.0	

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TEST REPORT ON COARSE AGGREGATES

Date: 19-05-2017

Lab ID : CP-2017-05-15-10
Sample ID No : 2017-05-15-10/02(a)

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Harshitha

FOR CIVIL Pro.
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Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 19-05-2017

Lab ID	:	**CP-2017-05-15-10**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in right side Shooting building road at Ravindra Nagara in ward no.13, Mallasandra Shettyhalli Sub Division.
Agency	:	Technical Manager(West), Karanataka Rural Infrastructure Development Limited, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-10/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	882	882	5.9	94.1	90-100
3	20 mm	6925	7807	52.0	48.0	30-70
4	10 mm	5147	12954	86.4	13.6	10-35
5	4.75 mm	1545	14499	96.7	3.3	0-5
6	Pan	501	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Date: 19-05-2017

Lab ID : CP-2017-05-15-10
Sample ID No : 2017-05-15-10/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.58	-
4	Bulk Density(Loose) (Kg/l)	1.51	-
5	Bulk Density(Compacted) (Kg/l)	1.57	-
6	Water Absorption(%)	0.24	-

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